

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-086380
 (43)Date of publication of application : 20.03.2003

(51)Int.Cl. H05B 33/14
 H05B 33/12
 H05B 33/22
 // C09K 11/06

(21)Application number : 2002-234508 (71)Applicant : EASTMAN KODAK CO
 (22)Date of filing : 12.08.2002 (72)Inventor : HATWAR TUKARAM KISAN

(30)Priority
 Priority number : 2001 930050 Priority date : 15.08.2001 Priority country : US

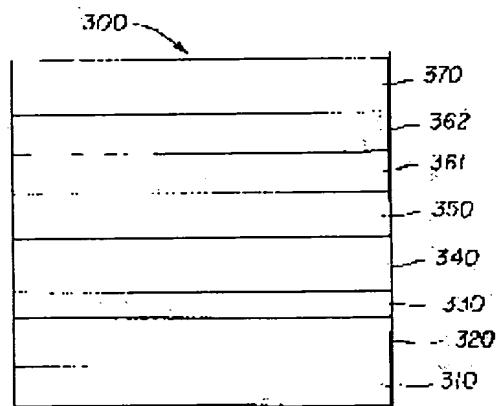
(54) ORGANIC LIGHT-EMITTING DIODE DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a highly efficient, white color emitting organic light-emitting diode device.

SOLUTION: The organic light-emitting diode device comprises (a) a substrate, (b) an anode arranged on top of the substrate, (c) a hole injecting layer arranged on the anode, (d) a hole carrier layer arranged on the hole injecting layer, (e) a luminous layer arranged directly on the hole carrier layer, in which a blue-color emitting compound is doped, (f) an electron carrier layer arranged on the blue-color emitting layer, and (g) a cathode arranged on top of the electron carrier layer. (h) The hole carrier layer is doped selectively by a compound emitting in the yellow-color range of the spectrum in the region corresponding to a part or the whole of the layer that contacts the blue-color emitting layer, and (i) the electron carrier layer is doped selectively by a compound emitting in the green-color range of the spectrum in the region corresponding to a part or the whole of the layer that contacts the blue-color emitting layer.

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LEGAL STATUS

[Date of request for examination] 21.07.2005

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]